CLAIMS

1. Impact attenuator (1) for a vehicle (6) comprising a rear part (2), with a first wheel (22), arranged to an attenuating part (3), a front part (4), with a second wheel (41), arranged between the attenuating part (3) an a coupling part (5) for connection to the vehicle (6), wherein the coupling part (5) comprises a damper (51) for dampening a part of the force during a collision against the impact attenuator (1) and for connecting the impact attenuator (1) laterally movable relative to the vehicle (6) during operation.

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- 2. Impact attenuator according to claim 1, wherein the damper (51) dampens up to a pre-determined pressure against the damper (51) after which the attenuating part (3) absorbs the rest of the collision forces.
- 15 3. Impact attenuator according to claim 2, wherein the damper (51) collapses when the pre-determined pressure is reached.
 - 4. Impact attenuator according to any of the claims 2-3, wherein the damper (51) comprises a medium, which is evacuated at the pre-determined pressure.

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- 5. Impact attenuator according to claim 4, wherein the damper (51) comprises an air-damper with a pressure device (52) for evacuating the air.
- 6. Impact attenuator according to claim 5, wherein the pressure device (52) comprises a safety valve or a bursting disc.
 - 7. Impact attenuator according to claim 4, wherein the damper (51) comprises a hydraulic damper with a hydraulic accumulator.
- 30 8. Impact attenuator according to any of the claims 2-7, wherein a beam (53) transfers a part of the collision forces to the vehicle (6) after that the damper (51) collapses.
- 9. Impact attenuator according to claim 8, wherein two beams (53) are arranged on each side of the damper (51).

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- 10. Impact attenuator according to claim 9, wherein the beams (53) are arranged to transfer the forces of collision to the vehicle (6) through a towing beam (62) on which the towing device (61) is arranged.
- 11. Impact attenuator according to any of the claims above, wherein the rear part (2) comprises two wheels (22) and that the front part (4) comprises two pivot wheels (41).
- 12. Impact attenuator according to any of the claims above, wherein the damper10 comprises a mechanical spring system.
 - 13. Impact attenuator according to claim 19, wherein the beams (53) are arranged to the front part (4).
- 14. Method for driving an impact attenuator (1) for a vehicle (6) comprising a rear part (2), with a first wheel (22), an attenuating part (3), a front part (4), with a second wheel (41) and a coupling part (5) for connection to the vehicle (6), wherein the impact attenuator is connected flexible length wise to the vehicle and movable sideways to the vehicle during operation.
 - 15. Method according to claim 14, wherein the connection is through a towing bar comprising a damper (51).